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Inhibition of Cholesterol Uptake by Arteries In Vitro and In Vivo.

This work is concerned with (1) the mechanism of the inhibitory action of 7-ketocholesterol and (2) its possible inhibitory effect on the arterial uptake of cholesterol in macaca fasicularis, a subhuman primate.

The first portion of the project deals with the effect of lipoprotein on inhibition of cholesterol uptake by the arterial wall as influenced by 7-ketocholesterol on the physical characteristics of plasma lipoproteins. It also is concerned with the question of whether plasma proteins are essential in the inhibitory effect of 7-ketocholesterol. The second part deals with efforts to obtain high blood levels in subhuman primates and the effect of this on inhibition of cholesterol uptake by the arterial wall in these animals. Several possibilities will be examined to raise plasma levels of 7-ketocholesterol.

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